



## Universities receive over \$42 million from Rome lab

by Fran Crumb, Information Directorate

ROME, N.Y. — The Air Force Research Laboratory Information Directorate at Rome recently awarded grants totaling more than \$42 million to universities across the country.

Institutions receiving funds for research programs related to the directorate's information technology mission include:

- Vanderbilt University, \$2,427,000, "Model-Based Synthesis of Generators for Embedded Systems"
- Cornell University, \$1,621,000, "Controlling Computational Cost: Structure Phase Transitions Randomization"
- Cornell University, \$700,000, "Self-Configuring Wireless Transmission and Decentralized Data Processing for Generic Sensor Networks"
- Johns Hopkins University, \$1,497,400, "Efficient and Scalable Infrastructure Support for Dynamic Coalitions."
- Johns Hopkins University, \$402,300, "Denial of Service Attack Assessment"
- George Mason University, \$1,580,000, "Collaborative Assistant for Rapid Knowledge Formation and Reasoning"
- Carnegie-Mellon University, \$1,098,100, "Information Science and Engineering Project"
- Georgia Tech Research Corp., \$993,100, "Compiler Optimizations for Power Aware Computing"
- Utah State University, \$465,700, "Analytic Prediction of Emergent Dynamics for ANY Systems"
- Carnegie-Mellon University, \$1,818,800, "Activelets: Lightweight Architectures for Special Operations Planning and Scheduling"
- Northeastern University, \$750,200, "Authentication and Key Revocation Protocols for Wireless Networks"
- Drexel University, \$241,900, "Methodologies for Reliable Certificate Revocation"
- Rensselaer Polytechnic Institute, \$180,000, "SPEECH Reconstruction"
- Clarkson University, \$30,000, "Research and Development Support for AGPU-2000: Test and Evaluation of the ATD"
- Massachusetts Institute of Technology, \$1,320,000, "Power Aware Computing Engines"
- Massachusetts Institute of Technology, \$1,068,000, "Power Aware Wireless Microsensor Networks"
- Carnegie-Mellon University, \$1,414,200, "Profiler 2000: Attacking the Insider Threat"
- University of Washington, \$1,400,000, "Enforceable Network Protocols"
- Johns Hopkins University, \$1,350,800, "High Performance, Robust and Secure GRP Communications for Dynamic Coalitions"
- University of Notre Dame, \$1,119,200, "Morphable Computer Architectures for Highly Energy-Aware Systems"
- Princeton University, \$300,000, "Building Secure and Reliable Networks through Robust Resource Scheduling"
- Villanova University, \$240,000, "Signal Processing Technology for Anti-Jamming Navigation Systems"
- Rice University, \$200,000, "Multi-Scale Traffic Processing Technology for Network Inference and Control"
- University of Maryland, \$177,900, "Engineering a Distributed Intrusion Tolerant Database System Using COTS Components"
- George Mason University, \$85,600, "Future Internet"
- SUNY Binghamton Research Foundation, \$50,000, "Laser Beam Steering & Position Control for Satellite-Based Communication Systems: Phase I"
- Stanford University, \$22,700, "Techniques for Associative Retrieval"
- Stanford University, \$2,250,000, "IP\_HORNET: A Novel IP-Over-WDM Multiple Access MAN"
- Stanford University, \$1,150,000, "Tools for DAML-Based Services, Document Templates and Query Answering"
- Stanford University, \$1,019,400, "OnTo-Agents-Enabling Intelligent Agents on the Web"
- Stanford University, \$649,800, "Representation and Computation with Decision and Game-Theoretic Agents"
- University of Wisconsin, \$3,797,000, "An Advanced Platform for Biomolecular Detection and Analysis Systems: Microfluidic Tetronics and Pocket BC Detector Systems"
- University of Wisconsin, \$935,000, "Location-Centric Distributed Computation and Signal Processing in Microsensor Networks"
- Carnegie-Mellon University, \$959,143, "Architecture-Based Adaptation of Complex Systems"
- Carnegie-Mellon University, \$834,494, "Specification of Agent Services for DARPA Agent Mark-Up Language (DAML)"
- Brown University, \$1,399,800, "Transport Properties of

Biofluids in Micromach”

- Massachusetts Institute of Technology, \$1,200,000, “New Arch: Future Generation Internet Architecture”
- Massachusetts Institute of Technology, \$1,110,000, “From Language to Knowledge: STARTing HAWK”
- Johns Hopkins University, \$1,000,000, “Quantitative Uncertainty Assessment”
- Syracuse University, \$995,300, “Computational Resiliency”
- Rensselaer Polytechnic Institute, \$950,000, “Scalable Online Networking Modeling and Simulation”
- Northwestern University, \$839,900, “Lightweight Cryptographic Techniques”
- Yale University, \$826,200, “Automatic Tools for Mapping Between Ontologies”
- University of Massachusetts, \$584,000, “Analytical Tools for Investigating and Modeling Agent-Based Systems” @